FACULTY ROFILE for NACC (2016-2022)



Name	Dr. Rekha G	arg Solanki	Date	e of Birth: 2:	5/04/1982	
Designation	Assistant Pr	ofessor Stage	(III) Date	e of holding	28 th June 20)17
			Pres	sent Post		
Name of the Department and	Physics		Sch	ool of Mathe	ematical and	Physical Sciences
School						
Contact Details	Email: gargre Sorekha49@g rgsolanki@dh		mail.com Mol	oile:9329943	3805, 877078	1460
Additional Responsibility in the	1. Member of	of Departmen	tal Board of S	tudies from	2019 to 2022	2.
university, if any	2. Member of	of School boar	d of studies fr	om 2019 to	2022.	
Educational Qualifications	M.Sc., M. Ph	il., Ph. D.				
(UG onwards)						
Research Area/Specialization	photovoltaic	tor Thin Film and catalytic pio-waste man	applications,		_	•
Awards/ Honors / Fellowship	1. Gold Medal in M.Sc. from Guru Ghasidas University, Bilaspur (CG).					
Conferred (With details thereof)	2. NSS	'B' Certificate	2			
Summary of Publications	Research	Books	Chapter in	Seminars/	Conferences	Projects
(Number only)	Papers		Books	Proce	eedings	
	08	-	_		07	-

Best Five Research Publications

- Structural, Optical, and Morphological Properties of CdS Nanoparticles Synthesized using Hydrazine Hydrate as Complexing Agent, *Rekha Garg Solankiand P. Rajaram, Nano-Structures & Nano-Objects 12, 157-165 (2017). Citations:18* https://doi.org/10.1016/j.nanoso.2017.10.003.
- Growth, Characterization, and Estimation of Lattice Strain and Size in CdS
 Nanoparticles: X-Rays Peak Profile Analysis, Rekha Garg Solanki and P. Rajaram,
 Indian J. Phys. (2017), 92(5), 595- 603. Citations: 12
 https://doi.org/10.1007/s12648-017-1134-8.
- Electrochemical Growth and Studies of CdZnTe thin films, Rekha G. Solanki, IJPAP Vol.48(02)133-135, February 2010. Citations: 11
 http://nopr.niscair.res.in/handle/123456789/7243.

4.	Theoretical Analysis of XRD Data by X-Ray Peak Profile Analysis for Estimation of
	lattice Strain and crystallite Size and study of the Effect of Growth Temperature in
	CdS Nanoparticles, Rekha Garg Solanki and P. Rajaram, Materials today
	Proceedings, Volume 47, Part 18, 2021, 6384-6388. Citations: 1
	https://doi.org/10.1016/j.matpr.2021.08.172.
5.	Structural and Optical Properties of Hydrazine Hydrate Capped Cadmium Sulphide,
	Rekha Garg Solanki and P. Rajaram, AIP Conference Proceedings 1953,030018
	(2018) published: May 2018, https://doi.org/10.1063/1.5032353 . Citations: 1.

PUBLIC	ATION	IS − 2007 onwards :			
Internati	International/National Publications (Details of Research Papers) – during 20007-2022				
YEAR	Resea	rch Article Details			
2022	1.	Synthesis and characterization of ZnSe nanorods by coprecipitation method, Prerna			
		Gupta, pushpanjali Patel, KM Sujata, Rekha Garg solanki Materials today			
		Proceedings, 2022 accepted. https://doi.org/10.1016/j.matpr.2022.05.411 .			
	2.	Quenching of As-synthesized ZnSe nanorods to ZnSe/ZnO nanoparticles via Air			
		Annealing Prerna Gupta, Pushpanjali Patel, KM Sujata, Rekha Garg Solanki, research			
		square, https://doi.org/10.21203/rs.3.rs-1584525/v1 . (Available on open access platform)			
2021	3.	Theoretical Analysis of XRD Data by X-Ray Peak Profile Analysis for Estimation of			
		lattice Strain and crystallite Size and study of the Effect of Growth Temperature in CdS			
		Nanoparticles, Rekha Garg Solanki and P. Rajaram, Materials today Proceedings,			
		Volume 47, Part 18, 2021, Pages 6384-6388.			
		https://doi.org/10.1016/j.matpr.2021.08.172			
2019	4.	Photoluminscence and chromaticity properties of CdSe nanosbeads made by a complexing			
		agent assisted hydrothermal method for LED and laser applications, Rekha Garg			
		Solanki and P. Rajaram, AIP Conference Proceedings 2142, 040017 (2019) published: 29			
		August 2019			
		https://doi.org/10.1063/1.5122354.			
	5.	Hydrothermal synthesis and photoluminescence Properties of CdSe and CdZnSe			
		nanostructures for lasers and LEDs, Proceedings of the first international conference on			
		advances in nanomaterials and devices for energy and environment (ICAN-2019);			
		Volume 52 (41), Year 2019. <u>Hydrothermal synthesis and photoluminescence Properties</u>			
		of Cd INIS (iaea.org).			
2018	6.	Structural and Optical Properties of Hydrazine Hydrate Capped Cadmium Sulphide,			
		Rekha Garg Solanki and P. Rajaram, AIP Conference Proceedings 1953,030018			
		(2018) published: May 2018, https://doi.org/10.1063/1.5032353 .			

	7. Structural and Optical Properties of CdSe Nanosheets, Rekha Garg Solanki and P. Rajaram, AIP Conference Proceedings 1942, 050104 (2018); published: April 2018. https://doi.org/10.1063/1.5028735 .
2017	 Structural, Optical, and Morphological Properties of CdS Nanoparticles Synthesized using Hydrazine Hydrate as Complexing Agent, <i>Rekha Garg Solankiand P. Rajaram</i>, <i>Nano-Structures & Nano-Objects 12, 157-165 (2017).</i> https://doi.org/10.1016/j.nanoso.2017.10.003. Growth, Characterization, and Estimation of Lattice Strain and Size in CdS Nanoparticles: X-Rays Peak Profile Analysis, Rekha Garg Solanki and P. Rajaram, Indian J. Phys. (2017), 92(5), 595-603https://doi.org/10.1007/s12648-017-1134-8.
	10. Two-Steptep Hydrothermal Synthesis of Nanocrystalline CdS, Rekha Garg Solanki and P. Rajaram, International Journal of Advanced Engineering and Research Development, 4 (7), 118-122 (2017). https://www.researchgate.net/publication/320628485 Two Step Hydrothermal Synthesis of Nanocrystalline CdS.
2016	11. Synthesis and Characterization of CdSe Nanoparticles by Two Step Chemical Method, Rekha Garg Solanki and P Rajaram, E-proceeding of DAE-BRNS 6th Interdisciplinary Symposium on Materials Chemistry page no. 275-277, December 6-10, 2016, Mumbai, India. https://www.researchgate.net/publication/362667903 Synthesis and Characterization of CdSe Nanoparticles by Two Step Chemical Method
2015	 Study of Ground State Parameters and Pressure-Induced Phase Transition in Cerium Bismuthide", Rekha Garg Solanki, Anurag Shrivastava, and P Rajaram, Advanced Science Letters, Vol. 21 (2015) 2915-2917. https://doi.org/10.1166/asl.2015.6368. Pressure-Inducedced Phase transition in Platinum Hydride", Rahul Kumar Thakur, Anurag Shrivastava, Lalit Mohan, Pankaj Mishra, Ranjeet Brajpuriya and Rekha Garg Solanki, Advanced Science Letters, Vol. 21 (2015) 2865-2867. https://doi.org/10.1166/asl.2015.6345.
2010	14. Electrochemical Growth and Studies of CdZnTe thin films, Rekha G. Solanki, IJPAP Vol.48(02)133-135, February 2010, http://nopr.niscair.res.in/handle/123456789/7243 .
2009	15. Structural and Compositional studies of CdTe thin films, Rekha G. Solanki and P. Rajaram, Madhya Bharti – A journal of Nantural Sciences 55, 2009 page (25-29). ISSN-0972-7434. https://www.researchgate.net/publication/362668257_structural_and_compositional_studies_of_electrodeposited_CdTe_thin_films .

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Invited lectures in various International/National Conferences, Webinars and other Organizations till 2022 1. "analysis of obstacles of scientific temper on the basis of mythological TV shows and 2022 films (TV & Film Media)" in two days 'International webinar on cultural and linguistic hurdles in achievement of Scientific temper' July 30th -31st 2022, organized by Department of anthropology, Montclair state University, New Jersey, USA. 2. Invited as resource person for evaluation of presentations of participants in 10^{th} International conference drift and research shift in Pharm-Ag, Engineering and Science (DRSPAES) held on 27th-28th February, 2022 at Swami Vivekananda University, Sagar (M.P). 3. Invited as resource person for Evaluation of micro-teaching by the participants on 28/07/2022 in refresher course on Recent data analysis methods during the period 20/07/2022 to 02/08/2022 organised by UGC-Human Resource Development Centre Dr. H S Gour University, Sagar (M.P.). 4. "Interdisciplinary Teaching and Learning" in three days National E-Workshop on" 2021 **Teaching Skills Development**" organised by Govt. College Patharia, Dist. Damoh (MP) from 22nd March to 24th March 2021. 5. "Effect of Ultraviolet rays and its consequences on human life" in national webinar on 24 th February 2021 organised by Department of Physics, Govt. College Harsud, Khandwa (MP). 6. "II-VIth Transition Metal Chalcogenide Materials (TMCMs) for Energy Detection, Conversion and Storage applications" in International conference on Diverse Emerging materials and their Applications (ICDEMA-2021) during 14th-15th March, 2021 at Department of Physics, University of Lucknow, Lucknow, (U.P.). 7. Invited for evaluation of the presentations of Research Proposals by the participants on 1/03/2021 in 4th Faculty development Programme 27/01/2021 to 02/03/2021 organised by UGC-Human Resource Development Centre Dr. H S Gour University, Sagar (M.P.) 8. 'Importance of Transition metal Chalcogenides for Energy conversion, storage and **Detection'** in 9th International conference 2021 Current Research Trends in Pharmacy, Engineering, Agriculture, Science, technology and management during Pandemic held on 27th-28th February, 2021 at Swami Vivekananda University, Sagar (M.P). 9. Invited for the Evaluation of the presentations of Research proposals by the participants on 1/03/2021 in 4th Faculty development Programme 27/01/2021 to 02/03/2021 organised by UGC-Human Resource Development Centre Dr. H S Gour **University, Sagar (M.P.)** 10. ''नई राष्ट्रीय शिक्षा नीति 2020 के संदर्भ में स्कूली शिक्षा की स्थिति" All India Save 2020 Education Society (AISE) Madhya Pradesh on 26 September 2020

	11. "नई राष्ट्रीय शिक्षा नीति 2020 के संदर्भ में उच्च शिक्षा एब ऑनलाइन शिक्षा की
	प्रासंगिकता" All India Save Education Society (AISE) Madhya Pradesh on 21
	November 2020
	12. CdS Nanoparticles Synthesis and Characterization: the Effect of Growth
	Temperatures on Structural, Optical and Morphological Properties in 8 th
	International conference on Innovative research practices in Pharma, Science,
	Management, Agriculture and Technology (IC-IRPPSMAT), held on 27 th -28 th February,
	2020 at Swami Vivekananda University, Sagar (M.P).
	13. "Scientific approach for Social Science problems" at Academic Staff College, Dr. H S
	Gour University, Sagar (M.P.) February 4, 2020.
2019	14. "Stephen Hawkins: Scientific Legacy" at Remedial Coaching Centre, Dr. H S Gour
	University, Sagar (M.P.), January 8, 2019.
2018	15. 'Waste water management' in National Seminar Sponsored by MPCST, Bhopal
	(M.P.) 2018, at Infinity Management & Engineering College Sagar (M.P.).
Internati	onal Seminar/Conference/Workshops/Webinars Organized during (2016-2022)
2022	1. International Conference on Current Trends in Advanced Materials and their
	Applications for Societal Development (ICTAMASD-2022) organized during March
	8-10, 2022 (ONLINE Mode)
2019	 http://www.dhsgsu.edu.in/index.php/en/events-all/2351-testing. 2. 2 days International Webinar on "Advanced Materials and their Application" during
2019	16-17 June 2020 (ONLINE Mode).
	https://us02web.zoom.us/j/81041529840?pwd=VVhjb2t1a1FGRllZWm1TZW9ER2k1dz09
Donor n	
гарег р	resented in National/International Conferences during (2007-2022)
2022	1. Investigation of the structural and optical properties of Copper selenium
	nanoparticles, in the virtual National Seminar on Advanced materials and
	characterization-2022, organised by material Research Lab., Department of Physics,
	Govt. Nagarjun PG college of Science Raipur (CG) during 26-27 August 2022.
	2. The first Principle study:electronic and optical properties of Bi ₂ S ₃ in the virtual
	National Seminar on Advanced materials and characterization-2022, organised by
	material Research Lab., Department of Physics, Govt. Nagarjun PG college of Science
	Raipur (CG) during 26-27 August 2022.
	3. 'Synthesis of ZnSe entities by co-precipitation method and their characterization' in
	the virtual National Seminar on Advanced materials and characterization-2022,
	organised by material Research Lab., Department of Physics, Govt. Nagarjun PG college of Science Points (CG) during 26, 27 August 2022
	 of Science Raipur (CG) during 26-27 August 2022. 4. 'Structural and Optical properties of Copper Selenide nanolayered tiles' in the 2022
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- second Global conference on Recent Advances in Sustainable Materials (GC-RASM2022) organised by A J institute of Engineering & Technology, Karnatka, India during **28-29**th, **July 2022.**
- **5.** 'Facile synthesis and characterization of ZnSe Nanoparticles' in the 2022 second Global conference on Recent Advances in Sustainable Materials (GC-RASM2022) organised by A J institute of Engineering & Technology, Karnatka, India during 28-29th, July 2022.
- 6. 'Synthesis and characterization of ZnSe Nanorods by co-precipitation method' in international conference on recent advances in engineering materials (ICREAM2022) organised by Alva's institute of engineering and technology, Moodbidri, karnatak during 3-5, March 2022.
- 7. 'Review study of Structural and optical properties of Bsmuth sulphide for thermoelectric applications' K M Sujata, Prerna Gupta, Pushpanjali patel and R G Solanki, in International Conference on Current Trends in Advanced Materials and their Applications for Societal Development (ICTAMASD-2022) organised by Department of Physics, dr H S Gour University, Sagar (MP) (ONLINE)during March 8-10, 2022.
- 8. 'Structural, Optical and Morphological Properties of ZnSe nanorods' Prerna Gupta, K M Sujata, Pushpanjali patel and R G Solanki in International Conference on Current Trends in Advanced Materials and their Applications for Societal Development (ICTAMASD-2022) organised by Department of Physics, dr H S Gour University, Sagar (MP) (ONLINE) during March 8-10, 2022
- 9. 'Solvothermal Synthesis of Copper selenide nanolayered Sheets' Pushpanjali patel, K M Sujata, Prerna Gupta, and R G Solanki in International Conference on Current Trends in Advanced Materials and their Applications for Societal Development (ICTAMASD-2022) organised by Department of Physics, dr H S Gour University, Sagar (MP) ONLINE) during March 8-10, 2022.
- 2021
- **10.** Composition dependent structural and Morphological Properties of Copper Selenide nanoparticles", Pushpanjali patel, Prerna Gupta, K M Sujata, and R G Solanki in 9th International conference 2021 Current Research Trends in Pharmacy, Engineering, Agriculture, Science, technology and management during Pandemic held on 27th-28th February, 2021 at Swami Vivekananda University, Sagar (M.P).
- 11. Study of the structural and Optical properties of Busmuth Selenide for thermoelectric applications", KM Sujata, Prerna Gupta, Pushpanjali patel and R G Solanki in 9th International conference 2021 Current Research Trends in Pharmacy, Engineering, Agriculture, Science, technology and management during Pandemic held on 27th-28th February, 2021 at Swami Vivekananda University, Sagar (M.P).
- 12. "Comparative analysis of chemical synthesis methods: search of a suitable cost effective method for ZnSe Nanoparticles", Prerna Gupta, K M Sujata, Pushpanjali patel

Pharmacy, Engineering, Agriculture, Science, technology and management during Pandemic held on 27th-28th February, 2021 at SVN University, Sagar (M.P.). 13. "Study of corrosion inhibitor properties of biowaste garlic peels as green corrosion inhibitor", Rekha Garg Solanki in 107th Indian Science Congress (ISC-2020) held a University of Agricultural Sciences Bangalore, during 3-7 January, 2020. 14. Woman Science Congress of 107th Indian Science Congress (ISC-2020) Rekha Garg Solanki and Surya Prakash held at University of Agricultural Sciences Bangalore, during 5-6 January, 2020. 15. "Photoluminescence and Chromaticity Properties of CdSe Nanobeads Made by a complexing agent assisted Hydrothermal Method for LEDs and Laser Applications in international conference on Advances in Basic Sciences (ICABS19) at GDC Memoria College, Bahal (Bhiwani) Haryana), February 7-9, 2019. 2018. 16. "Investigations of the effect of complexing agents on the properties of hydrothermally synthesized cadmium selenide nanocrystals" International Conference on Nanomaterials: Initiatives & Applications, at School of Studies in Environmenta Chemistry and Institute of Engineering, Jiwaji University, Gwalior (M.P.), March, 9-11 2018. 17. "Growth and characterization of CdS & CdSc nanoparticles" "XX- National Seminar on Ferroelectrics and Dielectrics (NSFD-2018) at Department of Physics, Guru Ghasidas University, Bilaspur (C.G.) December 14-16, 2018. 18. Waste water Management in National Seminar Sponsored by MPCST, Bhopal (M.P.) at Infinity Management & Engineering College Sagar (M.P.) in 2018. 2017. "Growth and Characterization of CdS nanoparticles", Rekha Garg Solanki and I Rajaram in 104th Indian Science Congress held at S V University Tirupati, during 3-7 January, 2017. 20. "Structural and Optical properties of Hydrazine Hydrate capped Cadmium Sulphide", Rekha Garg Solanki and I Rajaram, International Conference on Nanotechnology: Ideas, Innovations and Initiatives (ICN:31-2017), 6-8 December 2017, IIT Roorkee. 22. "Optical prop		
Pandemic held on 27th-28th February, 2021 at SVN University, Sagar (M.P.). 13. "Study of corrosion inhibitor properties of biowaste garlic peels as green corrosion inhibitor", Rekha Garg Solanki in 107th Indian Science Congress (ISC-2020) held a University of Agricultural Sciences Bangalore, during 3-7 January, 2020. 14. Woman Science Congress of 107th Indian Science Congress (ISC-2020) Rekha Garg Solanki and Surya Prakash held at University of Agricultural Sciences Bangalore, during 5-6 January, 2020. 2019 15. "Photoluminescence and Chromaticity Properties of CdSe Nanobeads Made by a complexing agent assisted Hydrothermal Method for LEDs and Laser Applications in international conference on Advances in Basic Sciences (ICABS19) at GDC Memoria College, Bahal (Bhiwani) Haryana), February 7-9, 2019. 2018 16. "Investigations of the effect of complexing agents on the properties on hydrothermally synthesized cadmium selenide nanocrystals" International Conference on Nanomaterials: Initiatives & Applications, at School of Studies in Environmenta Chemistry and Institute of Engineering, Jiwaji University, Gwalior (M.P.), March, 9-11 2018. 17. 'Growth and characterization of CdS & CdSe nanoparticles' "XX- National Seminar on Ferroelectrics and Dielectries (NSFD-2018) at Department of Physics, Guru Ghasidas University, Bilaspur (C.G.) December 14-16, 2018. 18. Waste water Management in National Seminar Sponsored by MPCST, Bhopal (M.P.) at Infinity Management & Engineering College Sagar (M.P.) in 2018. 2017 19. "Growth and Characterization of CdS nanoparticles", Rekha Garg Solanki and I Rajaram in 104th Indian Science Congress held at S V University Tirupati, during 3-January, 2017. 20. "Structural and Optical properties of Hydrazine Hydrate capped Cadmium Sulphide", Rekha Garg Solanki and I Rajaram, International Conference on Nanotechnology: Ideas, Innovations and Initiative (ICN:31-2017), 6-8 December 2017, IIT Roorkee. 22. "Optical properties of electrodeposited CdTe thin films", Rekha Garg Solanki and I Ra		and R G Solanki in 9 th International conference 2021 Current Research Trends in
 2020 13. "Study of corrosion inhibitor properties of biowaste garlic peels as green corrosion inhibitor", Rekha Garg Solanki in 107th Indian Science Congress (ISC-2020) held a University of Agricultural Sciences Bangalore, during 3-7 January, 2020. 14. Woman Science Congress of 107th Indian Science Congress (ISC-2020) Rekha Garg Solanki and Surya Prakash held at University of Agricultural Sciences Bangalore, during 5-6 January, 2020. 2019 		Pharmacy, Engineering, Agriculture, Science, technology and management during
inhibitor", Rekha Garg Solanki in 107th Indian Science Congress (ISC-2020) held a University of Agricultural Sciences Bangalore, during 3-7 January, 2020. 14. Woman Science Congress of 107th Indian Science Congress (ISC-2020) Rekha Garg Solanki and Surya Prakash held at University of Agricultural Sciences Bangalore, during 5-6 January, 2020. 15. "Photoluminescence and Chromaticity Properties of CdSe Nanobeads Made by a complexing agent assisted Hydrothermal Method for LEDs and Laser Applications in international conference on Advances in Basic Sciences (ICABS19) at GDC Memoria College, Bahal (Bhiwani) Haryana), February 7-9, 2019. 16. "Investigations of the effect of complexing agents on the properties of hydrothermally synthesized cadmium selenide nanocrystals" International Conference on Nanomaterials: Initiatives & Applications, at School of Studies in Environmenta Chemistry and Institute of Engineering, Jiwaji University, Gwalior (M.P.), March, 9-11 2018. 17. 'Growth and characterization of CdS & CdSe nanoparticles' 'XX- National Seminar on Ferroelectrics and Dielectrics (NSFD-2018) at Department of Physics, Guru Ghasidas University, Bilaspur (C.G.) December 14-16, 2018. 18. Waste water Management in National Seminar Sponsored by MPCST, Bhopal (M.P.) at Infinity Management & Engineering College Sagar (M.P.) in 2018. 2017 19. "Growth and Characterization of CdS nanoparticles", Rekha Garg Solanki and I Rajaram in 104th Indian Science Congress held at S V University Tirupati, during 3-January, 2017. 20. "Structural and Optical properties of Hydrazine Hydrate capped Cadmium Sulphide", Rekha Garg Solanki and P Rajaram, presented in International conference on Recent Trends in Chemical Sciences (ICRCS-2017) held at Govt. Engineering College Bikaner, 12-13 January, 2017. 21. "Synthesis of Cadmium Chalcogenide (CdE, E= S, Se) Nanoparticles by hydrothermal process in presence of Hydrazine hydrate", Rekha Garg Solanki and I Rajaram, International Conference on Nanotechnology: Ideas, Innovations and Initiativ		Pandemic held on 27 th -28 th February, 2021 at SVN University, Sagar (M.P).
University of Agricultural Sciences Bangalore, during 3-7 January, 2020. 14. Woman Science Congress of 107th Indian Science Congress (ISC-2020) Rekha Garg Solanki and Surya Prakash held at University of Agricultural Sciences Bangalore, during 5-6 January, 2020. 2019 15. "Photoluminescence and Chromaticity Properties of CdSe Nanobeads Made by a complexing agent assisted Hydrothermal Method for LEDs and Laser Applications' in international conference on Advances in Basic Sciences (ICABS19) at GDC Memoria College, Bahal (Bhiwani) Haryana), February 7-9, 2019. 2018 16. "Investigations of the effect of complexing agents on the properties of hydrothermally synthesized cadmium selenide nanocrystals" International Conference on Nanomaterials: Initiatives & Applications, at School of Studies in Environmenta Chemistry and Institute of Engineering, Jiwaji University, Gwalior (M.P.), March, 9-11 2018. 17. 'Growth and characterization of CdS & CdSe nanoparticles' 'XX- National Seminar on Ferroelectrics and Dielectrics (NSFD-2018) at Department of Physics, Guru Ghasidas University, Bilaspur (C.G.) December 14-16, 2018. 18. Waste water Management in National Seminar Sponsored by MPCST, Bhopal (M.P.) at Infinity Management & Engineering College Sagar (M.P.) in 2018. 2017 19. "Growth and Characterization of CdS nanoparticles", Rekha Garg Solanki and I Rajaram in 104th Indian Science Congress held at S V University Tirupati, during 3-7 January, 2017. 20. "Structural and Optical properties of Hydrazine Hydrate capped Cadmium Sulphide", Rekha Garg Solanki and P Rajaram, presented in International conference on Recent Trends in Chemical Sciences (ICRCS-2017) held at Govt. Engineering College Bikaner, 12-13 January, 2017. 21. "Synthesis of Cadmium Chalcogenide (CdE, E= S, Se) Nanoparticles by hydrothermal process in presence of Hydrazine hydrate", Rekha Garg Solanki and Rajaram, International Conference on Nanotechnology: Ideas, Innovations and Initiatives (ICN:31-2017), 6-8 December 2017, ITT Roorkee. 22. "Optical prope	2020	13. "Study of corrosion inhibitor properties of biowaste garlic peels as green corrosion
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 Rajaram in 104th Indian Science Congress held at S V University Tirupati, during 3-7 January, 2017. 20. "Structural and Optical properties of Hydrazine Hydrate capped Cadmium Sulphide", Rekha Garg Solanki and P Rajaram, presented in International conference or Recent Trends in Chemical Sciences (ICRCS-2017) held at Govt. Engineering College Bikaner, 12-13 January, 2017. 21. "Synthesis of Cadmium Chalcogenide (CdE, E= S, Se) Nanoparticles by hydrothermal process in presence of Hydrazine hydrate", Rekha Garg Solanki and F Rajaram, International Conference on Nanotechnology: Ideas, Innovations and Initiatives (ICN:3I-2017), 6-8 December 2017, IIT Roorkee. 22. "Optical properties of electrodeposited CdTe thin films", Rekha Garg Solanki and F Rajaram, 17th International Conference on Thin Films (ICTF 2017), 13-17 November 		
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 (ICN:3I-2017), 6-8 December 2017, IIT Roorkee. 22. "Optical properties of electrodeposited CdTe thin films", Rekha Garg Solanki and FRajaram, 17th International Conference on Thin Films (ICTF 2017), 13-17 November 		hydrothermal process in presence of Hydrazine hydrate", Rekha Garg Solanki and P
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Rajaram, 17 th International Conference on Thin Films (ICTF 2017), 13-17 November		22. "Optical properties of electrodeposited CdTe thin films", Rekha Garg Solanki and F
		2017 held at CSIR- National Physical Laboratory, New Delhi.

2016	23. "Investigation of the Impact of Crystalline Defects and Size on X-Ray Line
	Broadening: A Phenomenological Approach for Hexagonal CdS Nanoparticles", 32 nd
	Madhya Pradesh Science festival, February 28-29, 2016, MP Council of Science and
	Technology, Vigyan Bhawan, Nehru Nagar Bhopal (MP).
	24. "Estimation of lattice Strain in CdS nanoparticles by x-ray peak broadening
	analysis", National conference on emerging trends in engineering and Science, May 16-
	17, 2016 Institute of engineering and School of studies in Environmental Chemistry,
	Jiwaji university, Gwalior.
	25. "Study of the Effect of Growth Temperature on Structural and Optical Properties of
	CdS Nanoparticles", Rekha Garg Solanki and P Rajaram, presented in a seminar held at
	Jiwaji University, Gwalior during 29-30 November, 2016.
	26. "Synthesis and characterization of CdSe nanoparticles by two step chemical
	method", Rekha Garg Solanki and P Rajaram, presented in 6th interdisciplinary
	Symposium on Materials Chemistry (ISMC-2016) held at Bhabha Atomic Research
	centre, Mumbai, 6-10 December, 2016.
	27. Theoretical analysis of XRD data by X-ray peak profile analysis for estimation of
	lattice strain and size in CdS nanoparticles", Rekha Garg Solanki and P Rajaram,
	presented in 4 th International workshop/conference on computational condensed matter
	Physics and material Science (IWCCMP-2016), 18-20 November 2016, held at ABV-
	IIITM, Gwalior (M.P.)
	28. Optical and Thermal Properties of Chemically Synthesized CdSe", 102th Indian
	Science congress-2015 (ISC-2015) held on 3 rd -7 th January, 2015 at University of Mumbai,
	Mumbai.
2014	29. Lecture delivered on "Study of Annealing effect on Structural Properties of CdTe
	Thin Films", in International conference on Energy Environment and Life Sciences for
	Sustainable Future, held on $28^{ ext{th}}$ February $ 1^{ ext{st}}$ March 2014 at Swami Vivekananda
	University, Sagar (M.P).
	30. "Pressure Induced Phase transition in CeBi", Rekha Garg Solanki, P Rajaram and
	Anurag Shrivastava, in International E-workshop /Conference on Computational
	Condensed Matter Physics & Material Science (IWCCMP-2014), 25-30 th November, 2014,
	Atal Vihari Bajpai Institute of Information Technology and management (IIITM), Gwalior
	(M.P.).
2013	31. Study of morphological & structural properties of cadmium telluride thin films"
	International E-Workshop on Computational Condensed Matter Physics & Material
	Science (IWCCMP-2013), 27-29 November, 2013 held at Atal Vihari Bajpai Institute of
	Information Technology and management (IIITM), Gwalior (M.P.)

2011	32. Growth and Morphological and compositional Studies of CdZnTe Thin Films",
	Indian Science congress-2011 (ISC-2011) held on 3 rd -7 th January, 2011 at SRM University,
	Chennai.
2009	33. Synthesis and Structural Studies of Rare Earth Substituted Strontium Magnetite",
	National Symposium of Laser and Spectroscopy-2009 held on 27 th -28 th February, 2009 at
	Department of Physics, Dr H S Gour University, Sagar.
	34. "Band gap Study of Electrochemically Grown CdTe thin films", National conference
	"NCSSI-2009" held on 7-9 December 2009, at Department of Physics, Dr H S Gour
	University, Sagar.
2008	35. Preparation and Characterization of Cadmium Telluride Thin Films", National
	Science Day-2008, Dr H S Gour University, Sagar held on 26 th February, 2008.
2007	36. "Structural and compositional Studies of CdZnTe Thin Films", in national conference
	on Shanti Swarup Bhatnagar Award held on (8-10 March 2007) at Devi Ahilya
	Vishwavidyalaya, Indore.
	37. Growth and characterization of CdTe and CdZnTe thin Films, presented in Technovision-
	2007: A national level conference, October 26 th and 27 th , 2007 at Bhilai
	38. Structural and compositional Studies of CdTe Thin Films", Rekha Garg Solanki and
	P Rajaram, Current Trends In Physics (CTP-2K7), Govt. M.L.B. Girls P.G. College,
	Bhopal, 1 st and 2 nd March 2007.
Faculty	Development Programs/ Short term Course/ Training Programs during (2007 -
2022)	
2021	1. Short Term Course on Use of MATLAB' organised by HRDC, Dr H S Gour University,
	Sagar (M.P.) from 12 June to 21 June, 2021.
	2. Faculty Training Program on Recent Trends in Physics of Engineering Materials
	during 7 to 12 June, 2021 Deenbandhu Chhotu Ram University of Science &
	Technology, Murthal Sonipat, Haryana, India.
	3. '10-days E-National Workshop on Yoga & Corona Magement and the international
	Yoga day Celebration-2021' organised by Department of Yoga Education, , Dr H S
	Gour University, Sagar (M.P.) from 12 June to 21 June, 2021.
2020	Godf emversity, sugar (Miz), from 12 tune to 21 tune, 2021.
2020	4. Faculty Development Programme on SCILAB during 22 nd May -2 nd June 2020
	organised by A.N. College Patna in association with IIT Bombay through ICT MHRD
	Govt. Of India
	5. Faculty Development Programme on LATEX and XFIG during 11/05/2020 -
	17/05/2020 organised by A.N. college Patna in association with IIT Bombay IQAC, ICT
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2019	6. Refresher course on "Modern Spectroscopy techniques and applications" from			
	7/01/2019 - 27/01/2019 at Academic Staff College, Dr. H.S. Gour University, Sagar			
	(M.P.).			
	7. One Day Workshop on Internal quality assurance cell (IQAC), 4 February, 2019 Dr H			
	S Gour University, Sagar (M.P.)			
2018	8. "Induction cum Training Programme on MOOC Development" at Educational			
	Multimedia Research Centre, Dr. H S Gour University, Sagar (M.P.), 06 th -07 th			
	September, 2018.			
	9. Short term course on "MOOC and E-content Development, from 17/09/ 2018 to			
	19/09/2018 at Academic Staff College, Dr H S Gour Central University, Sagar (M.P.).			
2017	10. 'Pre-conference workshop on Thin Film Solar Cells, 17 th International Conference on			
	Thin Films (ICTF 2017), 13 November 2017, CSIR- National Physical Laboratory, New			
	Delhi (2017).			
2016	11. A GIAN course on "X-ray Structure Determination" 13-26, June 2016, Jiwaji			
	University, Gwalior (M.P.).			
2012	12. One week workshop "WONAMA-2012" Worksop on Nano and Advanced Materials			
	and their Applications, 10-16 April, 2012, Banaras Hindu University, Varanasi (U.P.)			
	13. Orientation course from 7/05/2012 – 02/06/2012 at Academic Staff College, RDVV,			
	Jabalpur.			
2010.	14. Refresher course in Physics from 4/02/2010 - 24/02/2010 at Academic Staff College,			
	DAVV, Indore.			
No. of I	Ph.D. Scholars (working):			
Membe	erships in Academic Bodies			
1	Life member Madhya Bharti: A Journal of Physical and Natural Sciences from 2007			
2	Life member of Solid State Ionics Society of India (SSISI) from 2009			
3	Life member Indian laser and Spectroscopy Society (LASSI) from 2012			
4	Life member Indian Science Congress Association (ISCA) from 2010			
Other	Academic Achievements : Membership of the Board of Studies/School Board /			
Acade	mic Council/ Executive Council (Within/ outside the university) and community			
work				
1.	Invited as Subject Expert in the Interview Board of Army Public School, Sagar (M.P.) March			
	2020.			
2.	Invited as Subject Expert in the Interview Board of Uttar Pradesh Madhyamic Siksha Seva			
	Chayan Board, Prayagraj , 22 to 25 February 2019 .			
3.	Invited as Subject Expert in the Interview Board of Army Public School, Sagar (M.P.) 29th			
	February 2019.			
L				

		Participation in international/national webinars/ conferences 2016-2022
2022	1.	Participated in national webinar on Metal Oxide Nanomaterials for Sensing Applications
		some experimental results." organized by Department of Physics, Dr. Harisingh Gour
		Vishwavidhyalya Sagar [MP] on Feb 28, 2022 through online mode.
2021	2.	Participated in International Conference on Material Sciences and Applied Physics
		(ICMSAP-2021), 22-24 November 2021 Organized by Department of Physics, Pachhunga
		University College Mizoram University, Aizawl, India
	3.	Participated in international webinar on cultural and linguistic hurdles in the achievement
		of scientific temper July 30-31, 2021 organized by organized by department of Anthropology,
		Montclair State University, New Jersey, USA.
2020	4.	Participated in International conference on 'Engineering Smart Materials in applied
		Chemistry (ESMAC- 2020) 10-12 August 2021, organized by Department of Chemistry,
		School of Applied Sciences, KIIT Deemed to be University, Bhubaneswar (Odisha).
	5.	Participated in National webinar on Dialogue with Baba Saheb "A Critical Reflection on
		Social Science Discourse" 12-14 April, 2020.organized by Teaching Learning Centre for
		Social Science (TLCSS), Doctor Harisingh Gour Vishwavidyalaya (A Central University),,
		under the aegis of Pandit Madan Mohan Malaviya National Mission of Teacher and Teaching
		(PMMMNMTT), MHRD,,New Delhi
	6.	Participated in International webinar on "Mathematical Modeling in Biological Systems"
		5-6 June 2020 organized by the Department of Mathematics and Statistics, Doctor Harisingh
		Gour Vishwavidyalaya, Sagar (M.P 2020)
	7.	International webinar on Revisiting the Idea of Teacher and teaching in the virtual space
		syn and post covid-19: Indegenous narratives & learning from Within 28-29 May, 2020
		organized by the teaching learning centre for social science (TLCSS), Doctor Harisingh Gour
		Vishwavidyalaya, Sagar (M.P.).
	8.	One day webinar on Indian knowledge tradition and Modern Science, 5 May 2020,
		organis d by Centre for Indegenous knowledge, Doctor Harisingh Gour Vishwavidyalaya, Sagar
		(M.P.).
2017	9.	Participated in National webinar on "World Environment Day" 5 June, 2017 organized by the
		School of Studies in Environmental Science (IGAEERE), Jiwaji University, Gwalior
2014	10	One Day Workshop on 'Nuclear Magnetic Resonance spectroscopy and its applications in
		Physics Chemistry and Biology, 16 February, 2014, Dr H S Gour University, Sagar (M.P.).
2013	11	National Conference on Solid State Chemistry and Allied Areas-2013 held on 15 th -17 th
		February, 2013 at department of Chemistry, Dr H S Gour University, Sagar (M.P.).
2003	12	Nuclear science centre NSC acquaintance program 2003, School of pure and applied
		physics, Guru Ghasidas University, Bilaspur CG.
Others		
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- 1. Certificate of Excellence in Indian Science Congress Quiz-2020 of CSIR, New Delhi.
- 2. **Member** of counseling committee of MSc I Semester Physics 2019
- 3. Convener of Cultural and Extracurricular activities committee 2019 -2022.
- 4. **In-charge** of B.Sc. I & II Semester Lab. during 2018, 2019.
- 5. **Member** of DPGC old course 2019.
- 6. **Nominated member** of DRC of computer science 2019.
- 7. **In-charge** of B.Sc. V & VI Semester Lab. during 2020, 2021
- 8. **Member** of physical verification committee of Dean School of SMPS 2018, 2019, 2020, 2021.
- 9. **Member** of stock verification committee of Remedial Coaching Centre 2018, 2019.
- 10. **Member RAC** of pre-submission seminar of Mr. Prakash Narayan PhD scholar Department of Mathematics & Statistics. 2019
- 11. **Taught** in **Remedial Coaching** Centre during 2014 and 2018, 2021.
- 12. **Member of DPGC** during 2017.
- 13. Appointed Judge for evaluation of speech competition of the Department 2017.
- 14. **Member** of departmental Discipline Committee 2017
- 15. Convener of M.Sc. seminar Committee during 2017.
- 16. In-charge of B.Sc. I & II Semester Lab. during 2017.
- 17. **Member** of **Tabulation committee** of main / Supplementary/Semester Examination for **academic session 2010-11 and 2011-12**
- 18. In-charge Laboratory of B.Sc. III Semester lab during 2009-10.
- 19. Judge of the Departmental Speech competition of UG & PG students during 2017.
- 20. Member of Evaluation work related to B.Ed of session 2007-08.
- 21. Member of Youth festival organizing committee 2007-2012.

Declaration:

I hereby declare that above information furnished by me is true to the Best of my Knowledge.

Date: 25/08/2022

Place: Sagar

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Dr. REKHA GARG SOLANKI

Assistant Professor,

Department of Physics

Dr H S Gour University, Sagar (M.P.)